RESPONSE UNDER 37 C.F.R. § 1.116 U.S. Application No. 09/384,422 Attorney Docket No. Q55464

IN THE CLAIMS:

1-2. (Canceled).

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- 3. (Previously Presented) A data transmitting element (DTE) to be used for sending data, over a link through a first communications network, towards a data receiving element (DRE) for communication of said data over a second communications network, said DTE comprising:
 - data sending inpans (DSM), adapted to send said data towards said DRE;
- service level requesting means for generating an Internet Protocol Control Protocol (IPCP)
 message, for sending to said DRE, requesting a service level for communicating said data
 of said DTE over said second communications network; and
- service level proposal receiving means:
 - adapted to receive from said DRE an IPCP message indicating a proposed service level that said DRE can provide for communicating said data of said DTE over said second communications network, and
 - notifying said DSM of said service level proposal.
- 4. (Previously Presented) The DTE according to claim 3, further comprising service level
- proposal renegotiating means, coupled between an output terminal of said service level proposal
- receiving means and an input terminal of said service level requesting means, for generating
- another IPCP message requesting a service level, different from the proposed service level
- s indicated in said PCP message from said DRE, in response to an indication that said proposed
- 6 scrvice level is not a satisfying service level.

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RESPONSE UNDER 37 C.F.R. § 1.116 U.S. Application No. 09/384,422 Attorney Docket No. Q55464

from a data transmitting element (DTE), over a link through a first communications network, and communicating said data over a second communications network, said DRE comprising:

data receiving means (DRM), adapted to receive said data from said DTE;

service level request reception means for receiving an Internet Protocol Control Protocol (IPCP) message, from said DTE, indicating a requested service level for said communicating of said data of said DTE over said second communications network;

service level negotiating and proposing means, coupled with said service level request reception means, for determining a service level that said DRE can provide for communicating said data of said DTE with said second communications network, based on at least one predetermined criterion and on said requested service level, and formulating, as a service level proposal, an IPCP message indicating said determined service level; and service level proposal sending means, coupled with said service level negotiating and

6. (Previously Presented) A data receiving element (DRE), to be used for receiving data from a data transmitting element (DTE), over a link through a first communications network, and communicating said data over a second communications network, said DRE comprising:

proposing means, for sending said IPCP message as said service level proposal.

- data receiving means (DRM), adapted to receive said data from said DTE;
 - service level regotiating and proposing means, for determining a service level that said DRE can provide for communicating said data of said DTE with said second communications network, based on at least one predetermined criterion and on said requested service level, and formulating, as a service level proposal, an IPCP message indicating said determined service level; and
 - service level proposal sending means, coupled with said service level negotiating and proposing means, for sending said IPCP message as said service level proposal.

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RESPONSE UNDER 37 C.F.R. § 1.116 U.S. Application No. 09/384,422 Attorney Docket No. Q55464

7. (Previously Presented) A software module for running on a processing system for inclusion in a data transmitting element (DTE), for sending data, over a link through a first communications network, towards a data receiving element (DRE) for communication of said data over a second communications network, said software module comprising:

a data sending sub-module, adapted to send said data towards said DRE;

a service level requesting sub-module, for generating an Internet Protocol Control Protocol (IPCP) message, for sending to said DRE, requesting a service level for communicating said data of said DTE over said second communications network; and
a service level proposal receiving sub-module:

adapted to receive from said DRE an IPCP message indicating a proposed service level that said DRE can provide for communicating said data of said DTE over said second communications network, and

8. (Original): The software module according to claim 7, further comprising a service level proposal renegotiating sub-module, co-operating with said service level proposal receiving sub-module and said service level requesting sub-module, for generating another IPCP message requesting a service level, different from the proposed service level indicated in said IPCP message from said DRE, in response to an indication that said proposed service level is not a satisfying service level.

notifying said data sending sub-module of said service level proposal.

- 9. (Previously Presented) A software module for running on a processing system for inclusion in a data receiving element (DRE), for receiving data from a data transmitting element (DTE), over a link through a first communications network, and communicating said data over a second communications network, said software module comprising:
- a data receiving sub-module, adapted to receive said data from said DTE;

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RESPONSE UNDER 37 C.F.R. § 1.116 U.S. Application No. 09/384,422 Attorney Docket No. Q55464

a service level request reception sub-module, for receiving an Interact Protocol Control Protocol (IPCP) message, from said DTE, indicating a requested service level for said communicating of said data of said DTE over said second communications network;

- a service level negotiating and proposing sub-module, co-operating with said service level request reception sub-module, for determining a service level that said DRE can provide for communicating said data of said DTE with said second communications network, based on at least one predetermined criterion and on said requested service level, and formulating, as a service level proposal, an IPCP message indicating said determined service level; and a service level proposal sending sub-module, co-operating with said service level negotiating and proposing sub-module, for sending said IPCP message as said service level proposal.
- 10. (Previously Presented) A software module for running on a processing system for inclusion in a data receiving element (DRE), for receiving data from a data transmitting element (DTE), over a Luk through a first communications network, and communicating said data over a second communications network, said software module comprising:
- a data receiving sub-module, adapted to receive said data from said DTE;
- a service level negotiating and proposing sub-module, for determining a service level that said

 DRE can provide for communicating said data of said DTE with said second
 communications network, based on at least one predetermined criterion and on said
 requested service level, and formulating, as a service level proposal, an IPCP message
 indicating said determined service level; and
- a service level proposal sending sub-module, co-operating with said service level negotiating and proposing sub-module, for sending said IPCP message as said service level proposal.
 - 11. (Previously Presented) A method for data communication, comprising:
- setting a level of service for a data transmitting network element (DTE), said DTE being connected to a data receiving network element (DRE) via a point-to-point connection of a

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RESPONSE UNDER 37 C.F.R. § 1.116 U.S. Application No. 09/384,422 Attorney Docket No. Q55464

first communications network, said DRE being connected to a second communications network, said level of service relating to transporting data between said DTE and said second communications network via said DRE, wherein said level of service is set by:

determining, a said DRE, a service level that said DRE can provide for communicating said data of said DTE with said second communications network, based on at least one predetermined criterion;

- formulating, a said DRE, an Internet Protocol Control Protocol proposal indicating said determined service level;
- sending said Internet Protocol Control Protocol proposal to said DTE; and
- receiving said Internet Protocol Control Protocol proposal at said DTE; and then
- transporting said data between said DTE and said second communications network via said

 DRE according to said level of service indicated in said Internet Protocol Control Protocol

 proposal.
- 1 12. (Previously Presented) The method for data communication as set forth in claim 11, further comprising:
- 3 before said determining of said service level at said DRE:
- sending, from said DTE to said DRE, an Internet Protocol Control Protocol request indicating a requested level of service; and
- receiving at said DRE said Internet Protocol Control Protocol service level request sent from said DTE;
- wherein said defermining of said service level at said DRE is based also on said requested level of service of said DTE.